

CLAIMS

What is claimed is:

1. A headgear system comprising:
 - 5 headgear with an upper headgear portion for being worn on a user's head and a lower headgear portion extending from the upper headgear portion for extending forwardly relative to a lower front portion of the user's head and below the user's eyes; and
 - 10 a display assembly mounted to the lower headgear portion for being located below at least one of the user's eyes so as not to obstruct the user's vision, the display assembly having a display that is visible when said at least one of the user's eyes looks downwardly, the display assembly being configured to be adjustable by the user while the headgear system is worn by the user for changing the orientation of the display.
- 15 2. The headgear system of Claim 1 in which the headgear is a helmet, and the lower headgear portion is a face bar.
3. The headgear system of Claim 2 in which the display assembly includes at least one rotatable joint having frictional resistance so that the joint remains in a particular orientation until moved by the user.
- 20 4. The headgear of Claim 3 in which the display is sized for viewing by one of the user's eyes when said one of the user's eyes looks downwardly.
5. The headgear of Claim 4 in which the display displays images which are focused at about optical infinity.

6. The headgear system of Claim 3 in which the display assembly has a rotatable horizontal axis for allowing the display to be tilted upwardly and downwardly, and a rotatable vertical axis for allowing the display to be tilted side to side, relative to the user's head.
- 5 7. The headgear system of Claim 6 in which the display assembly comprises:
 - a base for mounting to the face bar of the helmet, the base having a circular recess that is connected to an entrance slot;
 - a rotatable member having a generally circular portion that has a snap fit into the circular recess of the base through the entrance slot, the rotatable member being rotatable within the circular recess about the vertical axis; and
 - 10 two side members extending from the rotatable member, the display being rotatably mounted between the side members along the horizontal axis.
8. The headgear system of Claim 7 in which the display assembly is mounted to the face bar of the helmet for being below a first eye of the user, the headgear system further comprising a second base mounted to the face bar of the helmet for being below a second eye of the user to allow the user to select the position of at least one display by snap fitting an associated rotatable member into the desired base.
- 15 9. A headgear system comprising:
 - 20 headgear for being worn by a user; and
 - a display assembly having a display mounted to the headgear, the display assembly being configured to be adjustable by the user while the headgear system is worn by the user for changing the orientation of the display, the display assembly having a rotatable horizontal axis for allowing the display to be tilted upwardly and downwardly, and a rotatable vertical axis for allowing the display to be tilted side to side, relative to the user's head.

10. The headgear system of Claim 9 in which the display assembly comprises:
 - a base for mounting to the headgear, the base having a circular recess that is connected to an entrance slot;
 - 5 a rotatable member having a generally circular portion that has a snap fit into the circular recess of the base through the entrance slot, the rotatable member being rotatable within the circular recess about the vertical axis; and
 - two side members extending from the rotatable member, the display being rotatably mounted between the side members along the horizontal axis.
11. A method of displaying information to a user comprising:
 - 10 providing the user with headgear having an upper headgear portion for being worn on the user's head and a lower headgear portion extending from the upper headgear portion for extending forwardly relative to a lower front portion of the user's head and below the user's eyes; and
 - 15 mounting a display assembly to the lower headgear portion below at least one of the user's eyes so as not to obstruct the user's vision, the display assembly having a display for displaying information that is visible when said at least one of the user's eyes looks downwardly, the display assembly being configured to be adjustable by the user while the headgear is worn by the user for changing the orientation of the display for suitable viewing.
- 20 12. The method of Claim 11 further comprising providing the user with a headgear that is a helmet, and the lower headgear portion being a face bar.
13. The method of Claim 12 further comprising providing the display assembly with at least one rotatable joint having frictional resistance so that the joint remains in a particular orientation until moved by the user.

14. The method of Claim 13 further comprising sizing the display for viewing by one of the user's eyes when said one of the user's eyes looks downwardly.
15. The method of Claim 14 further comprising displaying images on the display which are focused at about optical infinity.
- 5 16. The method of Claim 13 further comprising providing the display assembly with a rotatable horizontal axis for allowing the display to be tilted upwardly and downwardly, and a rotatable vertical axis for allowing the display to be tilted side to side, relative to the user's head for adjusting to different users and helmet positions.
- 10 17. The method of Claim 16 further comprising:

providing the display assembly with a base for mounting to the face bar of the helmet, the base having a circular recess that is connected to an entrance slot, a rotatable member having a generally circular portion being snap fit into the circular recess of the base through the entrance slot, the rotatable member being rotatable within the circular recess about the vertical axis, the display being rotatably mounted between two side members extending from the rotatable member along the horizontal axis.
18. The method of Claim 17 further comprising:

positioning the display assembly to the face bar of the helmet below a first eye of the user; and

providing a second base mounted to the face bar of the helmet below a second eye of the user to allow the user to select the position of at least one display by snap fitting an associated rotatable member into the desired base.

19. A method of displaying information to a user comprising:
 - providing the user with headgear for being worn on the user's head; and
 - mounting a display assembly having a display for displaying information to the headgear, the display assembly being configured to be adjustable by the user while the headgear is worn by the user for changing the orientation of the display for suitable viewing, the display assembly having a rotatable horizontal axis for allowing the display to be tilted upwardly and downwardly, and a rotatable vertical axis for allowing the display to be tilted side to side, relative to the user's head.
- 10 20. The method of Claim 19 further comprising providing the display assembly with a base for mounting to the headgear, the base having a circular recess that is connected to an entrance slot, a rotatable member having a generally circular portion being snap fit into the circular recess of the base through the entrance slot, the rotatable member being rotatable within the circular recess about the vertical axis, the display being rotatably mounted between two side members extending from the rotatable member along the horizontal axis.